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Memorandum

TO: BATA Oversight Committee

DATE: February 6, 2013

FR: Executive Director

W. I. 1251

RE: Contract – On Call Design Services: Load Rating of 1958 Carquinez Bridge (HDR Engineering, Inc.) (\$160,000) and Contract Amendment On Call Design Services – 1962 Benicia-Martinez Bridge (Moffat & Nichol) (\$155,000)*

This item would authorize the Executive Director or his designee to negotiate and enter into a contract with HDR Engineering, Inc. for on-call design consultant services for the load rating of the 1958 Carquinez Bridge in an amount not to exceed \$160,000 and with Moffat & Nichol Engineers for the load rating of the 1962 Benicia-Martinez Bridge in an amount not to exceed \$155,000.

Background

“Load Rating” of a bridge is a specific analysis performed to determine the load (vehicles) that a structure can safely carry. In the early 1980’s to satisfy Federal guidelines at that time, Caltrans completed the load rating analysis of nearly 12,000 bridges in its inventory. While Caltrans does not have concerns over safety or the load carrying capacity of its existing structures, a recent annual review by FHWA concluded that revised load rating analyses are needed to meet current guidelines.

For most of the bridges in its inventory, Caltrans will be conducting the load rating analyses. However, given the complexity and size of the toll bridges, Caltrans has requested BATA assistance to procure consultants to load rate the toll bridges under its jurisdiction. Because the work is originating from a Caltrans request to BATA, staff will be requesting indemnification from Caltrans for any claims arising out of the consultants’ work product.

Consultant Selection Process

In January 2011, after a competitive procurement, the BATA Oversight Committee authorized the Executive Director to enter into contracts with eleven firms to provide on-call construction management and project design services. The Request for Qualifications (RFQ) that governed the selection specified that BATA could directly assign work to a particular firm based on the nature of the work, expertise and availability of the firm(s) and staff of those firm(s) or could conduct informal proposal solicitations among qualified firms to assist in assigning work.

On November 5, 2012, BATA staff solicited proposals for design services from all six BATA on-call design services firms available to load rate the 1958 Carquinez and 1962 Benicia-Martinez bridges. The firms were notified that no one firm would perform both load rating analyses. Other bridges may be reviewed by BATA consultants in the future.

Staff received proposals on December 10, 2012 from five firms: Parsons Brinckerhoff (PB), T.Y. Lin International (TY Lin), URS Corporation (URS), Moffat & Nichol (MN) and HDR Engineering, Inc. (HDR).

BATA and Caltrans staff reviewed the proposals considering three factors, in descending order of importance:

- (1) Demonstrated understanding of the project and soundness of the proposed approach;
- (2) Qualifications of the firm and proposed staff; and
- (3) Cost effectiveness and resource management.

Upon review, staff found that because the load rating evaluation process is generally well established and prescribed by the "The Manual for Bridge Evaluation" as issued by the American Association of State Highway and Transportation Officials (AASHTO) that all firms demonstrated a general good understanding of the project and were qualified to perform the work. The primary difference between firms became apparent in their cost effectiveness and use of resources. Based on our review, the firms were ranked as follows:

Rank	1958 Carquinez Bridge	1962 Benicia-Martinez Bridge
1	HDR	HDR
2	MN	MN
3	TY Lin	TY Lin
4	URS	URS
5	PB	PB

As noted above, the on-call firms from which BATA solicited proposals were notified that no one firm would be selected to perform both bridge analyses. Staff recommends HDR for the 1958 Carquinez Bridge in an amount not to exceed \$160,000 and MN for the 1962 Benicia Martinez Bridge in an amount not to exceed \$155,000. Both contracts will be funded from funds budgeted in the Toll Bridge Rehabilitation Program.

Recommendation

Staff recommends that the Committee authorize the Executive Director or his designee to negotiate and enter into a contract with HDR for on-call design consultant services for the load rating of the 1958 Carquinez Bridge in an amount not to exceed \$160,000 and a contract amendment with MN for the load rating of the 1962 Benicia-Martinez Bridge in an amount not to exceed \$155,000, subject to obtaining indemnification from Caltrans for any claims arising out of the consultants' work product.



Steve Heminger

SH:sb

REQUEST FOR COMMITTEE APPROVAL
Summary of Proposed Contract Amendment

Work Item No.:	1251
Vendor:	Moffat & Nichol Oakland, CA
Work Project Title:	On-Call Project Design Services: 1962 Benicia-Martinez Bridge Load Rating
Purpose of Project:	To perform a load rating analysis of the 1962 Benicia-Martinez Bridge.
Brief Scope of Work:	Consultant shall perform design services in accordance with applicable Caltrans and AASTHO design criteria for a load rating calculation
Project Cost Not to Exceed:	Contract Amendment - \$155,000 (Current contract - \$280,000; this amendment brings the total contract amount to \$435,000).
Funding Source:	Toll Bridge Rehabilitation Funds
Fiscal Impact:	Funds are included in the program budget for FY 2012-13
Motion by Committee:	That the Executive Director or his designee is authorized to negotiate and enter into a contract amendment with Moffat & Nichol to perform a load rating analysis of the 1962 Benicia-Martinez Bridge, subject to obtaining indemnification from Caltrans for any claims arising out of the consultants' work product, and the Chief Financial Officer is directed to set aside funds in an amount up to \$155,000 for such contract amendment.
BATA Oversight Chair:	<hr/> Bill Dodd
Approved:	Date: February 13, 2013

REQUEST FOR COMMITTEE APPROVAL
Summary of Proposed Contract

Work Item No.:	1251
Vendor:	HDR Engineering, Walnut Creek, CA
Work Project Title:	On-Call Project Design Services: 1958 Carquinez Bridge Load Rating
Purpose of Project:	To perform a load rating analysis of the 1958 Carquinez Bridge.
Brief Scope of Work:	Consultant shall perform design services in accordance with applicable Caltrans and AASTHO design criteria for a load rating calculation
Project Cost Not to Exceed:	\$160,000
Funding Source:	\$160,000 – Toll Bridge Rehabilitation Funds
Fiscal Impact:	Funds are included in the program budget for FY 2012-13
Motion by Committee:	That the Executive Director or his designee is authorized to negotiate and enter into a contract with HDR to perform a load rating analysis of the 1958 Carquinez Bridge, subject to obtaining indemnification from Caltrans for any claims arising out of the consultants' work product, and the Chief Financial Officer is directed to set aside funds in an amount up to \$160,000 for such contract.
BATA Oversight Chair:	<hr/> Bill Dodd
Approved:	Date: February 13, 2013